

1 **IP12 Rec'd PCT/PTO 28 APR 2006**

CLAIMS

1. Fluid product spraying device comprising a fluid product dispensing pump (10) operating without
5 propellant gas and without active spraying means, such as piezoelectric or electrostatic spraying means, and a spray head (20) to actuate the said pump (10) manually, characterised in that the said device comprises dispensing detection means (30) to detect that a
10 product dose has been dispensed, the said detection means (30) being adapted to output a signal to inform the user that a dose of product has actually been dispensed by the said pump.

2. Device according to claim 1, in which the
15 dispensing pump (10) is connected to a spraying orifice (40) through an expulsion channel (50), the said detection means (30) being provided in the said expulsion channel (50).

3. Device according to claim 2, in which the said
20 detection means (30) comprise an expulsion detector (30) adapted to detect the passage of the product in the said expulsion channel (50).

4. Device according to claim 3, in which the said
expulsion detector (30) comprises a pressure sensor
25 adapted to detect the pressure difference at the time that a product dose is sprayed.

5. Device according to any one of the previous
claims, in which the said detection means (30) are
connected to electronic means to process signals output
30 by the said detection means (30).

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2

6. Device according to any one of the previous claims, in which the said detection means (30) are also adapted to increment and decrement a dose counter.

5 7. Device according to any one of the previous claims, in which the said device is a nasal spraying device, the said pump (10) being adapted to dispense the product so finely sprayed that this spraying is undetectable by the user, the said detection means (30) informing the user each time that a product dose has
10 been dispensed.